

ABSTRACT

The present invention provides an improved refrigerant compressor comprising an overall casing, an electric motor with a stator and a rotor which is mounted on a drive shaft, and a screw compressor. A compressor screw of the screw
5 compressor is mounted on the drive shaft, which is rotatably mounted in the casing by a first radial bearing between the rotor and the compressor screw and a second radial bearing disposed on a side of the compressor screw lying opposite the
10 first radial bearing. The drive shaft is mounted in the casing by a third radial bearing disposed on a side of the rotor lying opposite the first radial bearing. A portion of the drive shaft which extends between the first radial bearing and one of the second and third radial bearings being
15 adapted to compensate for alignment errors between the three radial bearings.

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